CONTENTS VOL. 92, 1987

Research Papers

Assessment of recharge components for a chalk aquifer unit
D. Jackson (London, U.K.) and K.R. Rushton (Birmingham, U.K.) 1
Analysis of an anisotropic coastal aquifer system using variable-density flow and solute transport simulation
W.R. Souza (Honolulu, Hawaii, U.S.A.) and C.I. Voss (Reston, Va., U.S.A.) 17
Non-Darcian flow in fractured rocks with a linear flow pattern
Z. Şen (Jeddah, Saudi Arabia) 43
Suspended sediment load and mechanical erosion in the Senegal Basin — Estimation of the surface runoff concentration and relative contributions of channel and slope erosion
Z. Kattan (Strasbourg, France), J.Y. Gac (Dakar, Senegal) and J.L. Probst (Strasbourg, France) 59
Analysis of reservoir storage reallocations
R.A. Wurbs (College Station, Tex., U.S.A.) and L.M. Cabezas (Austin, Tex., U.S.A.) . . 77
A numerical model for the formation of saline waters due to diffusion of dissolved NaCl in subsiding sedimentary basins with evaporites
V. Ranganathan and J.S. Hanor (Baton Rouge, La., U.S.A.) 97
Model study of some factors influencing the resaturation of spoil following mining and reclamation
F.W. Schwartz and A.S. Crowe (Edmonton, Alta., Canada). 121
Regional hydrodynamics of the proposed high-level nuclear-waste repository sites in the Texas Panhandle
E.S. Bair (Columbus, Ohio, U.S.A.). 149
Microscale chemical heterogeneity in groundwater
D. Ronen, M. Magaritz, H. Gvirtzman (Rehovot, Israel) and W. Garner (Tel Aviv, Israel) 173
Indices of hydrological drought in Israel
A. Ben-Zvi (Jerusalem, Israel) 179
Seepage from channels and ponds with impervious walls extending below floor level
E.G. Youngs (Harpenden, U.K.) 193
A transfer function model for the prediction of nitrate leaching under field conditions
R.E. White (Palmerston North, New Zealand). 207
Wind set-up error in mean lake levels
T.E. Croley II. 223
A parameter estimation model for ungaged streamflows
U. Lall and J. Olds (Salt Lake City, Utah, U.S.A.) 245
Simulation of water discharge rates from a clay-till soil over a ten year period
A. Gustafson (Uppsala, Sweden) 263
Water losses from irrigation canals
E. Wachyan and K.R. Rushton (Birmingham, U.K.) 275
Analysis of a closed-form analytical model to predict the hydraulic conductivity function
M. Sakellariou-Makrantonaki, C. Tzimopoulos and D. Gouliaras (Thessaloniki, Greece) 289
Bushfire hydrology — The case of leaking watersheds
T.M. Daniell and V. Kulik (Canberra, A.C.T., Australia) 301
Some new perspectives on the probabilistic modeling of floods
M.L. Kavvas (Davis, Calif., U.S.A.) 315
On the negative phase shift of groundwater tides near shallow tidal rivers — The Gouderak anomaly
C. Maas (Nieuwegein, The Netherlands) and W.J. de Lange (Lelystad, The Netherlands) 333

Kinematic overland flow — Generalization of Rose's approximate solution, Part II
I.D. Moore (St. Paul, Minn., U.S.A.) and P.I.A. Kinnell (Canberra, A.C.T., Australia) 351
Origins of seawater intrusion in a coastal aquifer — A case study of the Pajaro Valley, California
L.D. Bond (Walnut Creek, Calif., U.S.A.) and J.D. Bredehoeft (Menlo Park, Calif., U.S.A.) 363

Announcement 389

Errata 391